

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-3. (Canceled)

1                   4.       (Currently Amended) A system for developing an application user  
2 interface, the system comprising:  
3                   an integrated development environment configured for a developer to specify a  
4 user interface element in the application user interface, the user interface element having a user  
5 customizable property, the application user interface being configured as an interface between an  
6 internet application and a user;  
7                   an application designer configured to produce metadata characterizing the  
8 customizable property; [[and]]  
9                   a data repository including a data record associated with the customizable  
10 property, the data record being modifiable by a user of the internet application and accessible  
11 using the metadata; and [[.]]  
12                   a user interface generator configured to generate the application user interface in  
13 response to a request from a user, the user interface generator configured to use the data record to  
14 determine a current state of the user customizable property at substantially the time of the request  
15 and generate markup language including the current state of the user customizable property for  
16 the user interface element.

1                   5.       (Previously Presented) The system of claim 4, wherein a state of the user  
2 customizable property is configured to persist between a display of the application user interface  
3 and another display of the application user interface.

1                   6.       (Previously Presented) The system of claim 4, further including an  
2 application server configured to support the internet application.

1                   7.       (Previously Presented) The system of claim 4, wherein the integrated  
2 development environment is further configured to associate the user interface element with a  
3 procedure within the internet application, the procedure configured to receive data entered by the  
4 user in a field of the user interface element.

1                   Claims 8-11. (Canceled)

1                   12.     (Currently Amended) The system of claim ~~[[9]]~~ 4, wherein the  
2 customizable property is further responsive to an identity of the user.

1                   13.     (Canceled)

1                   14.     (Currently Amended) A system for developing an application user  
2 interface associated with an internet application comprising:

3                   an integrated development environment configured for a developer to specify a  
4 user interface element in the application user interface, the user interface element having a user  
5 customizable tab-order property, the integrated development environment including an  
6 application designer configured to produce metadata to access a data record; and

7                   a data repository including the data record for storing data characterizing the  
8 customizable tab-order property, the data being user modifiable; and ~~[[.]]~~

9                   a user interface generator configured to generate the application user interface in  
10 response to a request from a user, the user interface generator configured to use the data record to  
11 determine the current state of the tab-order property at substantially the time of the request and  
12 generate markup language including the current state of the tab-order property for the user  
13 interface element.

1                   15.     (Previously Presented) The system of claim 14, wherein the customizable  
2 tab-order property includes tab-over.

1                   16.     (Previously Presented) The system of claim 15, wherein the integrated  
2 development environment is further configured to specify an additional user interface element in  
3 the application user interface, the additional user interface element specifiable to be skipped in a  
4 tab-order.

1                   17.     (Previously Presented) The system of claim 16, wherein the additional  
2 user interface element is a button.

1                   18.     (Previously Presented) The system of claim 16, wherein the additional  
2 user interface element is an image.

1                   19.     (Previously Presented) The system of claim 14, wherein the customizable  
2 tab-order property is configurable according to a class of user interface elements.

1                   20.     (Previously Presented) The system of claim 14, wherein the customizable  
2 tab-order property is configurable according to the identity of a user.

1                   21.     (Previously Presented) The system of claim 14, wherein the customizable  
2 tab-order property is configurable according to the identity of a client.

1                   22.     (Previously Presented) The system of claim 14, wherein the metadata is  
2 configured to characterize the tab-order property of a specific application component.

1                   23.     (Previously Presented) The system of claim 14, wherein the metadata  
2 includes a query for accessing the data record.

1                   24.     (Previously Presented) The system of claim 14, wherein the data is user  
2 modifiable using a personalization system integrated into the internet application.

1                   25.     (Previously Presented) The system of claim 14, wherein the data record  
2 includes a reference to an additional data record, the additional data record including additional  
3 data further characterizing the customizable tab-order property.

1                   26.     (Previously Presented) The system of claim 25, wherein the additional  
2 data is user modifiable.

1                   27.     (Currently Amended) A customizable application system comprising:  
2 an internet application system configured to support an internet application;  
3 an application user interface including a user interface element, the application  
4 user interface configured as an interface between the internet application and a user, the user  
5 interface element including a user customizable tab-order property, the user interface element  
6 configured for delivery to a client over a computer network;  
7 metadata characterizing the customizable tab-order property; and  
8 a data repository including a data record configured to store a value characterizing  
9 the customizable tab-order property, the value being user modifiable, [[.]]  
10                   wherein the application user interface is generated in response to a request from  
11 the user, the application user interface being generated using the data record to determine the  
12 current state of the tab-order property at substantially the time of the request and generate  
13 markup language including the current state of the tab-order property for the user interface  
14 element.

1                   28.     (Previously Presented) The customizable application system of claim 27,  
2 wherein the client is configured to display the application user interface using standard web  
3 browser protocols.

1                   29.     (Previously Presented) The customizable application system of claim 27,  
2 wherein the client is configured to display the application user interface using features of a web  
3 browser, the features not requiring a browser add-on, plug-in, or extensions.

1                   30.     (Previously Presented) The customizable application system of claim 27,  
2 further including means for generating the application user interface using the metadata.

1                   31.     (Previously Presented) The customizable application system of claim 27,  
2 wherein the data record includes additional metadata.

1                   32.     (Previously Presented) The customizable application system of claim 27,  
2 further including a personalization system configured to modify the data record.

1                   33.     (Previously Presented) The customizable application system of claim 32,  
2 wherein the data repository includes a user profile configured to store personalization data  
3 generated using the personalization system.

1                   34.     (Currently Amended) An internet application system comprising:  
2                   a user interface generator configured to generate a user interface including a user  
3 interface element, the user interface being compatible with a standard web browser and being  
4 generated in response to a request from a user, the user interface element including a user  
5 customizable tab-order property, the user interface generator configured to determine the current  
6 state of the tab-order property at substantially the time of the request and generate markup  
7 language including the current state of the tab-order property for the user interface element; and  
8                   a web application server configured to deliver the user interface to a client; and an  
9 internet application accessible to the user through the generated user interface.

1                   35.     (Previously Presented) The internet application system of claim 34,  
2 wherein the user interface generator is further configured to use metadata for characterizing the  
3 customizable tab-order property.

1                   36.     (Previously Presented) The internet application system of claim 34,  
2 wherein the customizable tab-order property includes tab-over.

1           37.     (Previously Presented) The internet application system of claim 34,  
2 wherein the user interface generator is further configured to use metadata for characterizing the  
3 tab-order property, the metadata including a reference to a data record, the data record including  
4 a user defined parameter.

1           38.     (Previously Presented) The internet application system of claim 34,  
2 wherein the user interface generator is configured to use a user modifiable data record for  
3 characterizing the tab-order property.

1           39.     (Previously Presented) The internet application system of claim 34,  
2 wherein the internet application includes a configuration system configured to modify data  
3 characterizing the tab-order property.

1           40.     (Previously Presented) The internet application system of claim 34,  
2 wherein the client is a wireless system.

1           41.     (Currently Amended) An internet application comprising:  
2 a computer program configured to run on an internet application system;  
3 an application user interface including a user interface element with a  
4 customizable tab-order property, the application user interface ~~configured~~ generated at the time  
5 of request for delivery to a client and configured to operate as an interface between a user and the  
6 internet application;

7 a user modifiable data record stored in a location physically remote from the  
8 client, the data record configurable for use by a user interface generator to generate the  
9 application user interface, the data record further configurable to characterize the customizable  
10 tab-order property; and

11 metadata configurable for use by the user interface generator to access the user  
12 modifiable data record in order to determine a current state of the tab-order property at

13 substantially the time of the request and generate markup language including the current state of  
14 the tab-order property for the user interface element..

1 42. (Previously Presented) The internet application of claim 41, wherein the  
2 metadata includes a query.

1 43. (Previously Presented) The internet application of claim 41, wherein the  
2 data record is further configured such that generation of the application user interface is  
3 responsive to an identity of the client.

1 44. (Previously Presented) The internet application of claim 41, wherein the  
2 data record is further configured such that generation of the application user interface is  
3 responsive to an identity of the user.

1 45. (Previously Presented) The internet application of claim 41, wherein the  
2 data record is configurable using a configuration interface.

1 Claims 46-52. (Canceled)

1 53. (Currently Amended) A method of developing a user interface element,  
2 the method comprising the steps of.  
3 selecting a customizable property of a user interface element;  
4 ~~including the customizable property in the user interface element;~~  
5 determining a data record for holding a value to characterize the customizable  
6 property and storing [[,]] the data record ~~being stored~~ in a data repository ~~and being user~~  
7 ~~modifiable, the data repository~~ being physically remote from a client used to display an HTML  
8 based application user interface; and  
9 generating metadata further characterizing the customizable property, the  
10 metadata including a reference to the data record, wherein the metadata is operable to be  
11 accessed to determine the value characterizing the customizable property upon receiving a user



12 request, the value being used to generate markup language in response to the request including  
13 the value of the customizable property for the user interface element. ; and  
14 ~~storing the metadata in association with the user interface element, the user~~  
15 ~~interface element being configurable for inclusion in the HTML based application user interface.~~

1 54. (Previously Presented) The method of claim 53, wherein the application  
2 user interface is configured for accessing an internet application.

1 55. (Previously Presented) The method of claim 54, wherein the step of  
2 determining a data record is responsive to the identity of a user.

1 56. (Previously Presented) The method of claim 54, wherein the user  
2 modifiable data record is configured such that the value used to characterize the customizable  
3 property persists between a generation of the application user interface and another generation of  
4 the application user interface.

1 57. (Previously Presented) The method of claim 54, wherein the customizable  
2 property includes a response to a user input device.

1 58. (Previously Presented) The method of claim 53, wherein the customizable  
2 property includes tab-order.

1 59. (Currently Amended) A method of developing an application user  
2 interface associated with an internet application, the method comprising the steps of:  
3 selecting a user customizable user interface element and associating the user  
4 customizable user interface element with ~~associated with~~ a data record ~~, the data record being~~  
5 operable to be stored in a data repository and being user modifiable, the data repository being  
6 physically remote from a client used to display the application user interface;  
7 ~~including~~ associating the user customizable user interface element with ~~[[in]]~~ the  
8 application user interface;



9                   generating metadata characterizing the user customizable user interface element,  
10 the metadata including a reference to the data record; and  
11                   storing the metadata in association with the internet application, the internet  
12 application being configured for access using the application user interface, the metadata being  
13 operable to be accessed to determine a current state of the user customizable user interface  
14 element upon receiving a user request, the current state being used to generate markup language  
15 in response to the request including the current state of the user customizable user interface  
16 element.

1                   60.     (Previously Presented) The method of claim 59, wherein the application  
2 user interface is generated responsive to the identity of a requestor.

1                   61.     (Previously Presented) The method of claim 59, wherein the user  
2 modifiable data record is configured such that a value stored in the data record and used to  
3 characterize the customizable property persists between a generation of the application user  
4 interface and another generation of the application user interface.

1                   62.     (Previously Presented) The method of claim 59, wherein a customizable  
2 property of the user customizable user interface element includes a response to a user input  
3 device.

1                   63.     (Previously Presented) The method of claim 59, wherein a customizable  
2 property of the user customizable user interface element includes tab-order.

1                   64.     (Currently Amended) A method of generating an application user  
2 interface, the method comprising the steps of.  
3                   receiving a request from a user requiring the generation of the application user  
4 interface;  
5                   accessing a page definition, the page definition including metadata for defining a  
6 user customizable property of the application user interface;

7                   obtaining a reference to a user modifiable data record, using the metadata;  
8                   accessing the user modifiable data record using the reference, the data record  
9 being stored in a data repository physically remote from a client used to display the customized  
10 application user interface;  
11                  reading the data record to determine a value characterizing the user customizable  
12 property;  
13                  generating markup-language ~~responsive to~~ including the value at substantially the  
14 time of the request; and  
15                  including the generated markup-language in the application user interface.

1                  65.     (Previously Presented) The method of claim 64, wherein the application  
2 user interface is an interface to an internet application.

1                  66.     (Previously Presented) The method of claim 64, further including  
2 modifying the value using a configuration system.

1                  67.     (Previously Presented) The method of claim 64, wherein the user  
2 customizable property is a response to a user input device.

1                  68.     (Previously Presented) The method of claim 64, wherein the user  
2 customizable property is tab-order.

1                  69.     (Previously Presented) The method of claim 64, wherein the application  
2 user interface is configurable for display using standard web browser protocols.

1                  Claims 70-74. (Canceled)

1                  75.     (Currently Amended) A method of customizing tab-order in an application  
2 user interface for a user, the method comprising the steps of.

3                         accessing a configuration system, the configuration system including a  
4 configuration engine and a configuration interface;

5           selecting, using the configuration interface, a tab-order property of a user  
6 interface element in the application user interface, the tab-order property being user  
7 customizable;

8           specifying configuration data using the configuration interface, the configuration  
9 data characterizing the tab-order property; and

10           generating the application user interface in response to a user request using the  
11 specified configuration data for that user at substantially the time of the request, the application  
12 user interface being HTML based and being configured to access an internet application.

1           76.   (Previously Presented) The method of claim 75, further including  
2 displaying the application user interface using standard web browser protocols.

1           77.   (Previously Presented) The method of claim 75, wherein the tab-order  
2 property is a tab-over property.

1           78.   (Previously Presented) The method of claim 77, wherein the tab-over  
2 property is configurable responsive to a class of user interface elements.

1           79.   (Canceled)

1           80.   (Previously Presented) A method of executing an internet application  
2 comprising the steps of  
3           receiving a request for an application user interface from a client, the application  
4 user interface including a user interface element;  
5           accessing a page definition, the page definition including metadata and defining  
6 the requested application user interface;  
7           retrieving a value characterizing a user customizable tab-order property of the  
8 user interface element using the metadata, the value being stored in a data repository physically  
9 remote from the client;  
10           generating HTML responsive to the value;

11 including the generated HTML in the application user interface; and  
12 delivering the application user interface to the client, the application user interface  
13 being an interface between a user and the internet application.

1 81. (Previously Presented) The method of claim 80, wherein the user  
2 customizable tab-order property is a user customizable tab-over property.

1 82. (Previously Presented) The method of claim 80, wherein the value is  
2 personalization data.

1 83. (Previously Presented) The method of claim 80, further including  
2 displaying the application user interface at the client using standard web browser protocols.

1 84. (Previously Presented) The method of claim 80, wherein the step of  
2 retrieving a value uses an identity of a requester of the application user interface.

1 85. (Previously Presented) A method of generating an application user  
2 interface including a customizable tab-order property, the method comprising the steps of  
3 accessing a page definition, the page definition including metadata characterizing  
4 the customizable tab-order property;  
5 reading a value from a data record using the metadata, the data record being  
6 stored in a data repository physically remote from a client used to display the application user  
7 interface, the value being user modifiable and further characterizing the customizable tab-order  
8 property;  
9 generating HTML responsive to the value; and  
10 including the HTML in the application user interface, the application user  
11 interface being an interface to an internet application.

1 86. (Previously Presented) The method of claim 85, wherein the customizable  
2 tab-order property is a customizable tab-over property.

1                   87.     (Previously Presented) The method of claim 85, wherein the data record  
2 includes configuration data.

1                   88.     (Previously Presented) The method of claim 85, further including  
2 displaying the application user interface using standard web browser protocols.

1                   89.     (Previously Presented) The method of claim 85, wherein a state of the  
2 customizable tab-order property persists between a generation of the application user interface  
3 and another generation of the application user interface.

1                   90.     (Previously Presented) The method of claim 85, further including  
2 identifying a requestor of the application user interface, wherein the step of reading a value is  
3 responsive to an identity of the requestor.

1                   91.     (Previously Presented) A method of generating an application user  
2 interface configured for delivery from a server to a client, the method comprising the steps of:  
3                   receiving, at the server, a request for the application user interface from the client,  
4 the application user interface including a user interface element;  
5                   identifying the requester of the application user interface;  
6                   accessing a page definition, the page definition including metadata and defining  
7 the application user interface;  
8                   retrieving, using the metadata and the identity of the requester, a value relating to  
9 a user customizable tab-order property of the user interface element, the value being stored in a  
10 data repository physically remote from the client;  
11                  generating HTML or Java script using the value; and  
12                  including the HTML or Java script in the application user interface.

1                   92.     (Previously Presented) The method of claim 91, wherein the user  
2 customizable tab-order property is a user customizable tab-over property.

1                   93.     (Previously Presented) The method of claim 91, further including  
2 displaying the application user interface at the client using standard web browser protocols.

1                   94.     (Currently Amended) A computer readable medium including an internet  
2 application, the internet application comprising:

3                   metadata defining an application user interface, the application user interface  
4 including a user interface element with a user customizable tab-order property, the application  
5 user interface configured for delivery to a client and configured to operate as an interface  
6 between a user and the internet application;

7                   a user interface generator configured to generate the application user interface in  
8 response to a user request using a user modifiable data record stored in a location physically  
9 remote from the client, the user modifiable data record configurable to characterize the user  
10 customizable tab-order property; and

11                  a configuration system configured for a user to modify the user modifiable data  
12 record.

1                   95.     (Currently Amended) A computer readable medium including an internet  
2 ~~internet~~ application, the internet application comprising:

3                   an application designer configured to develop an application user interface, the  
4 application user interface including a user interface element with a user customizable tab-order  
5 property, the application user interface configured for delivery to a client and configured to  
6 operate as an interface between a user and the internet application;

7                   a user interface generator configured to generate the application user interface in  
8 response to a user request using a user modifiable data record stored in a location physically  
9 remote from the client, the user modifiable data record configurable to characterize the user  
10 customizable tab-order property; and

11                  a configuration system configured for a user to modify the user modifiable data  
12 record.

1                   96.     (Currently Amended) An application execution system comprising:  
2                   means for supporting an internet application;  
3                   means for generating an application user interface in response to a user request  
4 using a user modifiable data record configured to store data characterizing a user customizable  
5 tab-order property; and  
6                   means for providing the application user interface to a user, the application user  
7 interface including a user interface element, the application user interface configured as an  
8 interface between the internet application and the user, the user interface element including the  
9 user customizable tab-order property, the user interface element configured for delivery to a  
10 client over a computer network.